

SASB INDEX

Reference	Activity Metric	Category	Unit of Measure	Answer	Cross-Reference
Mix of Business					
1a.	Number of customers by category: (1) municipal, (2) commercial, (3) industrial, (4) residential, and (5) other	Quantitative	Number	(1) 3,000, (2) 1,100,000, (3) 200,000, (4) 18,400,000, (5) 250,000	SR p. 6 Updated 12/31/18
1b.	Vehicle fleet size	Quantitative	Number	32,000 — 6,536 heavy-duty natural gas, 42 hybrid bulldozers	SR pp. 84-85, 88
1c.	Number of (1) landfills, (2) transfer stations, (3) recycling centers (4) composting centers, (5) incinerators, and (6) all other facilities	Quantitative	Number	(1) 249, (2) 305, (3) 157, (4) 48, (5) 0, (6) 127 landfill gas-to-energy facilities, 107 natural gas fueling stations	SR p. 5
1d.	Amount of materials managed by customer category (1) municipal, (2) commercial, (3) industrial, (4) residential, and (5) other	Quantitative	Metric tons (t)	(1) 36.5M, (2) 17.8M, (3) 20.9M, (4) 14.2M, (5) 150.9M	
Greenhouse Gas Emissions					
2a.	(1) Gross global Scope 1 emissions, (2) percentage covered under emissions-limiting regulation, and (3) percentage covered under emissions-reporting regulation	Quantitative	Metric tons (t) CO ₂ e Percentage (%)	(1) 15,689,993 MTCO ₂ e, (2) 97% of Scope 1 emissions are covered under emissions-limiting regulation, (3) 97% of Scope 1 emissions are covered under emissions-reporting regulation.	
2c.	Total landfill gas generated, percentage flared, percentage used for energy	Quantitative	Million British Thermal Units (MMBtu), Percentage (%)	Total landfill gas collected: 10,4921,857.2 MMBTU. 45% flared, 46% used for energy, 9% for other beneficial use (fuel source for leachate evaporator units and pipeline projects where gas is sent to boilers as fuel or for transportation fuel). Note that gas collected is the metric for which there is available, reliable data.	

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2d.	Description of long-term and short-term strategy or plan to manage Scope 1 emissions, emission-reduction targets, and an analysis of performance against those targets	Discussion and Analysis	n/a	<p>Over the next 20 years, we intend for our waste solutions and services to result in an overall reduction of GHG emissions four times greater than generated by our own operations. In 2017, that ratio was three.</p> <p>Targets and Progress:</p> <p>By 2038, 45% reduction of Scope 1 emissions from 2010 base year; 91% achieved.</p> <p>By 2028, 42% reduction in Scope 1, 2 and 3 emissions from 2011 base year; 50% achieved.</p> <p>By 2038, 75% reduction in Scope 1 and 2 emissions from 2011 base year; 28% achieved.</p> <p>Emissions strategy/management:</p> <ul style="list-style-type: none"> • Expand existing and identify new beneficial use projects to manage methane at our landfills • Develop high-BTU projects that convert landfill gas to renewable transportation fuels for use in our heavy-duty trucks and for sale to third parties • Invest in innovations to convert waste materials into energy and other low-carbon products while perfecting the technical processes, logistics and match of products to market demand. See page 42 for more about waste-based energy production. • Further our renewable energy production through investment in companies that are developing sustainable energy technologies. See page 46 for more about waste-based energy production. • Transition from diesel to alternative fuel vehicles in 90% of our entire fleet • Use renewable fuel in over 90% of our entire fleet • Purchase near zero vehicles • Continue to improve energy efficiency at our facilities • Capture methane at our landfills for use as renewable electricity and renewable fuel by third parties • Recycle materials for the greatest environmental benefits 	

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Air Quality					
3a.	Air emissions of the following pollutants: NO _x (excluding N ₂ O), SO _x , non-methane volatile organic compounds (NMVOCs), and hazardous air pollutants (HAPs)	Quantitative	Metric tons (t)	Based on the total amount of landfill gas recovered, WM's operations generated 0.0000562 ton of NO _x , 0.0000076 ton of SO _x and 0.000001 ton non-methane organic compounds (NMOC) per ton of solid waste handled at our facilities with gas collection in 2017.	
3b.	Number of facilities in or near areas of dense population	Quantitative	Number	122 landfills within an urbanized area, 135 within 5 km. of an urbanized area, 201 outside of an urbanized area	SR pp. 197-198
3c.	Number of incidents of non-compliance associated with air emissions	Quantitative	Number	2	SR p. 165
Fleet Fuel Management					
4a.	Fleet fuel consumed, percentage renewable	Quantitative	Gigajoules, Percentage (%)	21,327,196 gigajoules of fuel consumed by fleet, 5% renewable	
4b.	Percentage of alternative energy vehicles in fleet	Quantitative	Percentage (%)	42%	
Management of Leachate & Hazardous Waste					
5a.	Total Toxic Release Inventory (TRI) releases, percentage released to water	Quantitative	Metric tons (t), Percentage (%)	15,401 air; 0 water (<1%); 32,276,337 contained in RCRA C facility; 10,144,130 contained in underground injection; 160,623 transferred to offsite containment	SR pp. 165-166
5b.	Number of corrective actions implemented for landfill releases	Quantitative	Number	0	SR p. 71
5c.	Number of incidents of non-compliance associated with environmental impacts	Quantitative	Number	1 formal enforcement action in 2017; 4 reportable spills	SR p. 158
Workforce Health & Safety					
6a.	(1) Total recordable injury rate (TRIR), (2) fatality rate, and (3) near miss frequency rate (NMFR) for (a) direct employees and (b) contract employees	Quantitative	Rate	(1) 2.8. See also the numbers for Days Away/Restricted or Transfer; Vehicle Accident Recordable Rate; and Hourly Accident Recordable Rate. Because of the lack of comparable data for the waste and recycling sector, WM limits its reporting to the standard OSHA metrics. Further information is available from our VP of Safety, Jeff Martin, JMartin22@wm.com .	SR pp. 104-105
6b.	Safety Measurement System BASIC percentiles for: (1) Unsafe Driving, (2) Hours-of-Service Compliance, (3) Driver Fitness, (4) Controlled Substances/Alcohol, (5) Vehicle Maintenance, and (6) Hazardous Materials Compliance	Quantitative	Percentile (%)	See above	
6c.	Number of vehicle accidents and incidents	Quantitative	Number	See above	



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Labor Relations					
7a.	Percentage of active workforce covered under collective bargaining agreements	Quantitative	Percentage (%)	20%	SR p. 189
7b.	Number and duration of strikes and lockouts	Quantitative	Number, Days	0	
Recycling & Resource Recovery					
8a.	Amount of waste incinerated, percentage hazardous, percentage used for energy recovery	Quantitative	Metric tons (t), Percentage (%)	0	WM no longer owns any waste incineration capacity. To the extent that a specific waste stream received at a WM facility must be transferred for off-site incineration, that volume would be a subcomponent of the TRI off-site transfer data reported under TRI, the total of which represents 0.0037% of waste handled. SR p. 165
8b.	Percentage of customers receiving (1) recycling and (2) composting services, by customer type	Quantitative	Percentage (%)	(1) 49% residential customers, 27% commercial; (2) 31% residential, 2% commercial	
8c.	Amount of material (1) recycled and (2) composted	Quantitative	Metric tons (t)	(1) 15M tons; (2) 3.38M tons (includes organic material composted, mulched or processed in CORE facilities)	SR p. 30
8d.	Amount of electronic waste collected, percentage recovered through recycling	Quantitative	Metric tons (t), Percentage (%)	9,865 tons collected, 96.8% recycled	SR p. 51
Fleet					
9a.	Unsafe Driving, HOS Compliance			In the absence of OSHA metrics and definitions for "unsafe driving" and absence of comparable industry data on HOS for both the public and private sectors, please refer to the safety section.	SR pp. 104-109
9b.	Driver Fitness, Controlled Substances/ Alcohol, Vehicle Maintenance			Please see discussion of safety programs.	SR pp. 104-109
9c.	HM Compliance			Please see discussion of safety programs.	SR pp. 104-109